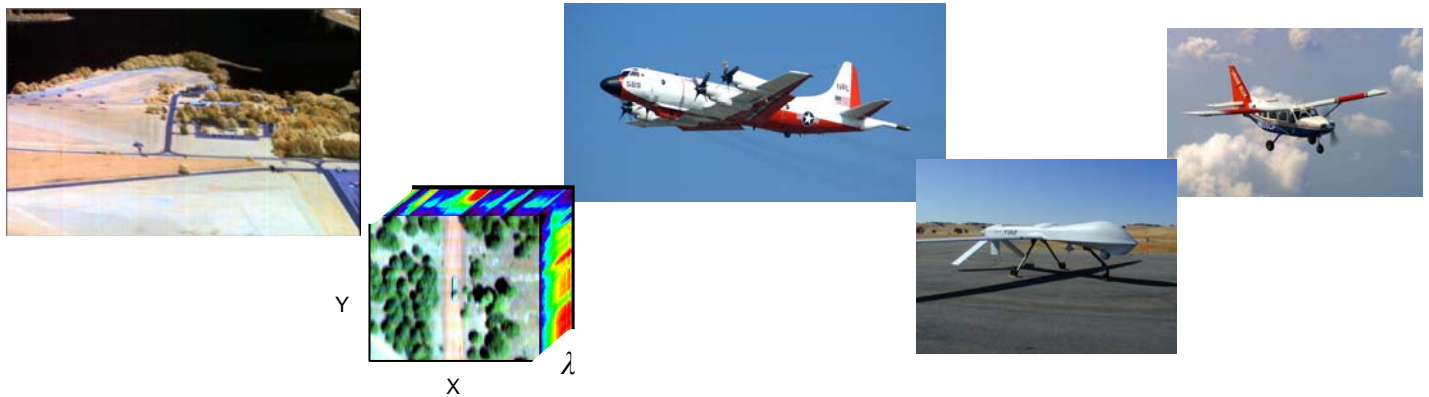# HYPERSPECTRAL IMAGING TECHNOLOGIES, DATA COLLECTIONS, AND EXPLOITATION

Hyperspectral imagery and collection platforms

DESCRIPTION:

The Naval Research Laboratory Optical Sciences Division has pioneered the use of hyperspectral imaging technology in airborne systems.

- Developed a family of hyperspectral imaging (HSI) instruments covering visible and infrared bands. These range from compact instruments (~10-in. size) to instruments that are incorporated into large long-range optics.
- HSI instruments flown on aircraft such as an NRL P-3, as part of a multi-sensor suite, and on smaller aircraft such as the DeHavilland Twin Otter, the Beech King Air, and the Australian Gippsland GA8 Airvan.
- Data collected over a variety of terrains and against various object types.
- Data processed in real time with dedicated hardware and using state-of-the art algorithms developed at NRL.

APPLICATIONS:

Commercial applications include
- Terrain categorization
- Effluent characterization

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